

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	11/04/2014 11/04/2014	Clay Thomas

LM Start		Rating **	A	Issue No.	20
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	
				°	
DWR ID	DWR_NA0005_01_s_2013_20				
Action/Comments					
Inspector Comments: City of Sacramento has levee manuals.					

No Photos

LM Start		Rating **	A	Issue No.	22
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_NA0005_01_s_2013_22				
Action/Comments					
Inspector Comments: City of Sacramento maintains a stockpile of response material.					

No Photos

LM Start		Rating **	A	Issue No.	23
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	
				°	
DWR ID	DWR_NA0005_01_s_2013_23				
Action/Comments					
Inspector Comments: City of Sacramento has a written response plan and regular response training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Left	3.67	11/04/2014 11/04/2014	Clay Thomas

LM Start	0.00	Rating **	A	Issue No.	82
LM End	3.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				°
					°
DWR ID	DWR_NA0005_01_f_2014_82				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2014_NA0005_251_82_20141106_00033.jpg



Levee mile 1017, vegetation on the water side levee slope, railroad tracks on the land side slope. Fall 2014.

LM Start	1.15	Rating **	A/W	Issue No.	13
LM End	1.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.574780 °	38.568757 °
				-121.510191 °	-121.515930 °
DWR ID	DWR_NA0005_01_f_2012_13				
Action/Comments					
Trees / Woody Vegetation					

Photo 1 of 3 : FA_2014_NA0005_251_13_20141014_00014.jpg



Trees and brush are larger than 2 inches but does not effect visibility. Photo fall 2012.

LM Start	1.15	Rating **	A/W	Issue No.	13 (cont)
LM End	1.69	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2014_NA0005_251_13_20141014_00015.jpg



Monitor the trees and vegetation along the rivers edge. Fall 2013

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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LM Start	1.15	Rating **	A/W	Issue No.	13 (cont)
LM End	1.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.574780 °	38.568757 °
				-121.510191 °	-121.515930 °
DWR ID	DWR_NA0005_01_f_2012_13				
Action/Comments					
Trees / Woody Vegetation					

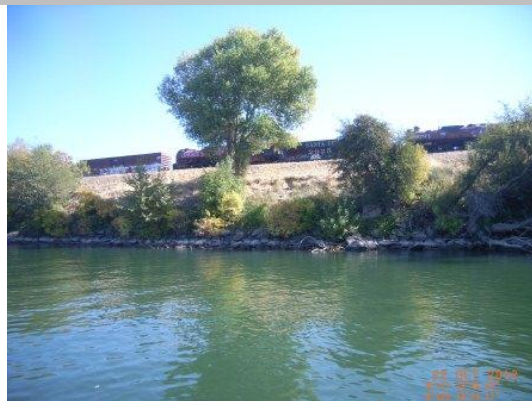
Photo 3 of 3 : FA_2014_NA0005_251_13_20141014_00016.jpg



Monitor the trees and woody vegetation along the rivers edge. Fall 2013

LM Start	1.31	Rating **	M	Issue No.	12
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.573169 °	38.572277 °
				-121.511998 °	-121.513063 °
DWR ID	DWR_NA0005_01_f_2014_12				
Action/Comments					
Inspector Comments: 2008 - Oversized levee, should be repaired under maintenance. 2009 - Shallow slumps at the mid bank. 2010 - Some minor erosion at the toe, likely from wave wash. Some new shallow slumps. 2011 - One new tree has fallen. 2013: Erosion continues on the slope surface, site extended upstream [2013 Site ID: SAC_58-5_L]					

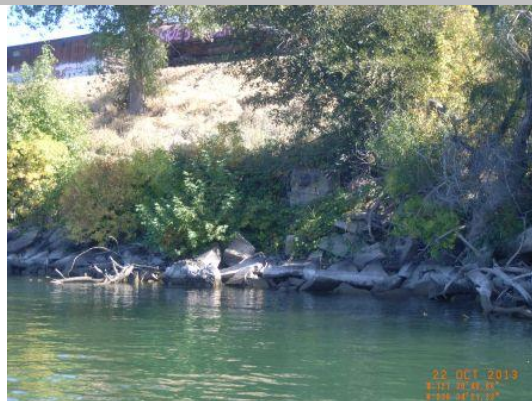
Photo 1 of 2 : FA_2014_NA0005_251_12_20141014_00012.jpg



USACE 2013 Photo #1

LM Start	1.31	Rating **	M	Issue No.	12 (cont)
LM End	1.39	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2014_NA0005_251_12_20141014_00013.jpg



USACE 2013 Photo #2

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	11/04/2014 11/04/2014	Clay Thomas

LM Start	1.75	Rating **	A/W	Issue No.	144
LM End	1.75	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.567821 °	38.567821 °
				-121.516091 °	-121.516091 °
DWR ID	DWR_NA0005_01_s_2012_144				
Action/Comments					
Pipe					

Photo 1 of 2 : FA_2014_NA0005_251_144_20141014_00024.jpg



This appears to be a drain pipe under a driveway. It is a different pipe then the other photo for this issue. Fall 2011

LM Start	1.75	Rating **	A/W	Issue No.	144 (cont)
LM End	1.75	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : FA_2014_NA0005_251_144_20141014_00025.jpg



A pipe on the landside shoulder crosses under the railroad tracks. Fall 2011

LM Start	2.04	Rating **	A/W	Issue No.	145
LM End	2.04	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.563720 °	-121.515890 °
				38.563720 °	-121.515890 °
DWR ID	DWR_NA0005_01_s_2012_145				
Action/Comments					
Pipe					
Inspector Comments: The pipe has been repaired by the LMA. The pipe was installed by the Railroad Museum and is in talks with the CVFPB. No permit was issued for them.					

Photo 1 of 1 : FA_2014_NA0005_251_145_20141014_00026.jpg



The pipe is a french drain under the railroad tracks. Was in the USACE report has not been resolved. Photo fall 2012.

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Unit No. 01 Sacramento River	Left	3.67	11/04/2014 11/04/2014	Clay Thomas

LM Start	2.45	Rating **	A/W	Issue No.	8
LM End	2.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.557937 °	38.557937 °
				-121.514237 °	-121.514237 °
DWR ID	DWR_NA0005_01_s_2012_8				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	2.46	Rating **	A/W	Issue No.	21
LM End	2.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.557828 °	38.553710 °
				-121.514193 °	-121.512863 °
DWR ID	DWR_NA0005_01_s_2012_21				
Action/Comments					
Environmental Requirements.					

Photo 1 of 2 : FA_2014_NA0005_251_21_20141014_00021.jpg



A photo of the revegetation site taken spring 2012.

LM Start	2.46	Rating **	A/W	Issue No.	21 (cont)
LM End	2.76	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2014_NA0005_251_21_20141014_00022.jpg



This area is a revegetation site, photo taken spring 2012.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

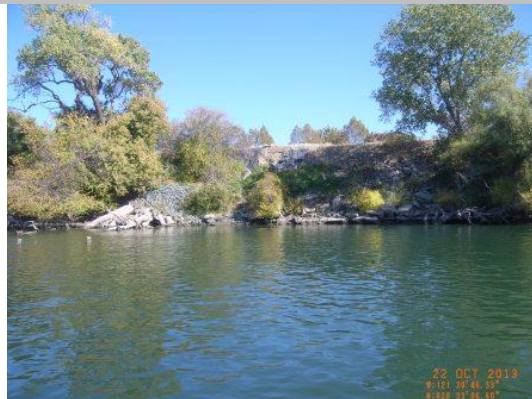
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Unit No. 01 Sacramento River	Left	3.67	11/04/2014 11/04/2014	Clay Thomas

LM Start	2.84	Rating **	M	Issue No.	11
LM End	2.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.551578 °	38.552268 °
				-121.512336 °	-121.512590 °
DWR ID	DWR_NA0005_01_f_2014_11				
Action/Comments					
Inspector Comments: 1997 - Erosion at pump station, concrete debris and plastic showing. 2000 - Separation scour of bank due to poor transition. 2004 - New large tree pop out; city dumped fill dirt/rock into hole. 2006 - Minor new erosion at top of bank. 2010 - Some new rock placed in tree pop-out. 2011 - A large tree has fallen and flood fighting was performed by the city on the upper levee slope. 2012 - Small rock					

Photo 1 of 1 : FA_2014_NA0005_251_11_20141014_00011.jpg



USACE 2013 Photo #1

LM Start	3.22	Rating **	C	Issue No.	16
LM End	3.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.547353 °	38.547353 °
				-121.510253 °	-121.510253 °
DWR ID	DWR_NA0005_01_f_2012_16				
Action/Comments					
Tree stumps.					

No Photos

LM Start	3.47	Rating **	C	Issue No.	39
LM End	3.47	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.543351 °	38.543351 °
				-121.510084 °	-121.510084 °
DWR ID	DWR_NA0005_01_s_2014_39				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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